

<110> Rosen et al.

<120> 28 Human Secreted Proteins

<130> PZ003P2

<140> Unassigned

<141> 2001-05-11

<150> 60/265,583

<151> 2001-02-02

<150> 09/152,060

<151> 1998-09-11

<150> PCT/US98/04858

<151> 1998-03-12

<150> 60/040,762

<151> 1997-03-14

<150> 60/040,710

<151> 1997-03-14

<150> 60/050,934

<151> 1997-05-30

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<151> 1997-05-30

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<150> 60/057,765

<151> 1997-09-05

<150> 60/048,970

<151> 1997-06-06

<150> 60/068,368

<151> 1997-12-19

<160> 118

<170> PatentIn Ver. 2.0

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acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
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 <223> Xaa equals any of the twenty naturally occurring L-amino acids

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<210> 3
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86

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 <213> Homo sapiens

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27

<210> 5
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 <212> DNA
 <213> Homo sapiens

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 gcccccttaact ccccccaggat ccgccccatcc tccgccccat ggctgactaa ttttttttat
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cagttccgccc cattctccgc cccatggctg actaattttt tttatttatg cagaggccgaa	180
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<213> Homo sapiens	

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 <222> (839)
 <223> n equals a,t,g, or c

<400> 11

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agccaagc	acag	ctgc	gg	ctgg	gg	gg	tc	gtatc	aggag	180
ctgcttctaa	agga	agt	ggc	cagg	gg	ttt	gg	ttt	cc	240
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tgttt	gattt	gtcc	ca	gt	aa	aa	aa	aa	gtat	360
cccg	cag	c	cc	cc	aa	aa	aa	aa	ttt	420
aa	aa	aa	aa	aa	aa	aa	aa	aa	ttt	480
ctgc	at	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	540
ctgc	at	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	600
tta	aa	aa	aa	aa	aa	aa	aa	aa	aa	660
tgac	agg	gg	cc	ct	cc	cc	cc	cc	cc	720
tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	780
tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	840
agg	cc	cc	cc	cc	cc	cc	cc	cc	cc	900
gg	gg	gg	gg	gg	gg	gg	gg	gg	gg	960
tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	1020
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tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	1200
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ct	ca	at	cc	cc	cc	cc	cc	cc	cc	1320
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cc	ac	cc	cc	cc	cc	cc	cc	cc	cc	1620
cc	cc	cc	cc	cc	cc	cc	cc	cc	cc	1680
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tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	1860
at	aa	gg	cc	cc	cc	cc	cc	cc	cc	1920
gac	at	tt	tt	tt	tt	tt	tt	tt	tt	1980
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act	cg	gg	gg	gg	gg	gg	gg	gg	gg	2084

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 <211> 1586
 <212> DNA
 <213> Homo sapiens

<400> 12

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tcgt	ctt	caa	gg	cc	aa	gg	gg	gg	cc	gg	180
taagg	cggt	gga	ag	ac	cc	tt	ct	cc	tc	gg	240
aratgg	gag	ca	at	ca	tt	tt	cc	cc	cc	cc	300
ttgt	gct	gg	ttt	gag	ttt	ttt	ttt	ttt	ttt	ttt	360
ggcc	act	ag	cc	ac	cc	cc	cc	cc	cc	cc	420
tctg	ccat	gc	ca	ac	tt	tt	tt	tt	tt	tt	480
cctc	agg	cc	gt	ca	ag	tt	tt	tt	tt	tt	540

gccgcctcta	cacacaccag	gtggccacca	ggagctact	gagctgccgg	actacaacaa	600
gatctcctt	aaggagcagg	tgcctatgcc	cctggaggak	gtgctgcctg	acgtctctcc	660
ccaggcattg	gatctgctgg	gtcaattcct	tctctaccct	cctcaccagc	gcatcgagc	720
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cagataccaa	tatttaaaag	tttgtataat	aataaaagagt	atgattgtgg	ttcaaggata	1560
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<211> 689

<212> DNA

<213> Homo sapiens

<400> 13

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aattgcaggg	cagcctgcca	tgtatcttct	cacttactcc	tctcccatc	agcaatcaac	180
cagactaagg	agttttgatc	cctagtgtatt	acagccctga	agaaaattaa	atctgaatta	240
attttacatg	gccttcgtga	tctttctgct	gttcttactt	tttgcataatgt	agttgggggg	300
tgggagggac	aggttatgg	atttaaagag	aataaacatt	ttgcacatac	atgtattgt	360
caacagtaag	atcctctgtt	aaaaccagct	gtcctttct	ccatctccat	ttcttcccat	420
gctgttaaccc	caggctccac	cagctgttcc	ccagtgtatgt	tacctagctt	ccctctaccg	480
tttgtctactg	accatttcca	ctacatgcct	ttccttacctt	cccttcacaa	ccaatcaagt	540
gaataacttga	ttattatctc	ttccttactg	tgctttatct	tttttgggg	gattgggtct	600
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<211> 1348

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<213> Homo sapiens

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taagagctgt	ggtgagacct	tcaactccat	caccaaggagg	aggcatact	gcaagctgt	180
tggggcggtc	atctgtggga	agtgcctcga	gttcaaggcc	gagaacagcc	ggcagagcct	240
gtctgcagag	attgtttct	gacacagcca	gtggccctg	agagcacaga	gaagacaccc	300
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scaccaaaaa	aaaaaaaaaa	aaaaaaaaac				1348

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<211> 1123

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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cctaaagtcc	tgagaactt	tcttgcata	cagctttt	tcttcctgag	aaacagtgt	360
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 <212> DNA
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<210> 18
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 <222> (483)
 <223> n equals a,t,g, or c

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aaaaaaaaaaaaaaa aaaaaaaaaaaa	1699

<210> 20
 <211> 736

<212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (701)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (733)
 <223> n equals a,t,g, or c

<400> 20
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 ttagatgcgtgc ttttcgcaag aacaagactc tcggctatgg agtccccatg ttgttgc 180
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 aatatgagaa aatcaaagac tccaagttt atgactggaa gaatattcga ggacccaggc 360
 ctgggaaaga tcctgacaccc tcctcaaggaa gaaatccaga aagcctaag actaagacaa 420
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 gacttcctaa tatataacttc tatcaagtg 540
 atatggtaa tttgatgaca aataatctt actaaaggc atgtacaggt ttatatactt 600
 cccagctatt ccatctgtgg atgaaagtaa caatgtggc cacgtatatt ttacacctcg 660
 aaataaaaaaa tgtgaataact gctccaaaaaa aaaaaaaaaagt nggcagctt tccctagg 720
 ggtaatnngc tgntgc 736

<210> 21
 <211> 1688
 <212> DNA
 <213> Homo sapiens

<400> 21
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 gcttcccttg gtgccagaccc ttctgagcac ccaccattt tttgacacag ctgaaccaga 180
 catggatgat ccagcttata ttgcagttt ggtacttatt ttcataatgtg ctaaaacctg 240
 tccaaacaatg ccagcattgt ttcagatca caccttcagg cactatgcct acctccgaga 300
 cagttttctt catcttgc ttgccttgg gttaccagg agaaaaactgg tgtcatc 360
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gaaaacac						1688

<210> 22
 <211> 2045
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2040)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2041)
 <223> n equals a,t,g, or c

<400> 22

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aactccattc	aggaatacat	acggcaactg	cctcctaatt	ttccctacag	agatgatgtc	600
atgtgcagtg	aatcctacct	gtttgtcc	tattatctt	ctgtttat	gcattatctt	660
gacttttaag	ggttacttga	ttagctgtgt	ttggaactgc	taccgataca	tcaatgttag	720
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaan	2040
naaaa	2045

<210> 23
 <211> 1101
 <212> DNA
 <213> Homo sapiens

<400> 23	
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tggcgcgat gatgctgcct gcgattgcgc ccagccggcc ctggcccttc atggagcagt	180
atgagggtcg tttgcccgygg cgtctgcccag gccccccgagt ccgcgcgatct ctgcctcc	240
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gccacgtaga ggggtacccg gactcagccg ccagccctcg cacctgtgcc ggcctcagg	480
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cctgcaccat ggcccatgag a	1101

<210> 24
 <211> 1659
 <212> DNA
 <213> Homo sapiens

<400> 24	
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ttcctggcag agattcactt ccctttgatt tccagggggca ttcggggcct ccttttgc	180
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gagggggaggg acctggacat gatttcaggg ggggagatgg ttcgtcttct gatttcaga	300
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cttggaaagat gccatcgat gcatggaggg caaccaggct ggtgatttagt aactaaagca	1560
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tggtaatga aacaggagat ccctcagtca aaacaaaaaa	1659

<210> 25
 <211> 1329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (520)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1140)
 <223> n equals a,t,g, or c

<400> 25

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acatcatcat cttccttact ggcctccctg ccaacctcct ggccttgcgg gcctttgtgg	180
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ccgacccctt cctgtgtctg ctgtgtccct tcaagatcat cgaggctgcg tcgaacttcc	300
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ctcatgcct	1329

<210> 26
 <211> 700
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (659)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (692)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (700)
 <223> n equals a,t,g, or c

<400> 26

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tgcacagggt gtccaaagagc gtggatggg atgaaagagt ggtcccgcg cgaagctgag	420
aggcttgtga aataccgaga gccaatggc cttcccatca tgaatccaa ctgcttcgac	480
cccaagcaaga tccagctgcc agaggatgag tgaccagttt ctaagtgggg ctcaagaagc	540
accgccttcc ccacccctg cctgccattc tgaccttcc tcagagcacc taattaaagg	600
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aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaana	700

<210> 27
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (821)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (825)
 <223> n equals a,t,g, or c

<400> 27

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caacatctcc	cgagaaaacgt	gacatgcatt	acttcttgc	gggacttatg	ggcaagagga	420
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<210> 28
 <211> 2361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2361)
 <223> n equals a,t,g, or c

<400> 28

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<210> 29
<211> 879
<212> DNA
<213> Homo sapiens
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<212> DNA
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<210> 31
 <211> 3259
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 230
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <211> 753
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 37
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (420)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (486)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (530)

<223> n equals a,t,g, or c

<400> 37

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ccactattaa	atcacttatt	gcatactgaa	aaaaaaaaaa	aaaaaaaaactc	gaagggggggn	420
ccggtaccca	attcgcccta	tagtgagtcg	tattacaatt	cactggggcg	tcgttttaca	480
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<210> 38

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> n equals a,t,g, or c

<400> 38

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<210> 39
 <211> 1907
 <212> DNA
 <213> Homo sapiens

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<210> 40
 <211> 2350
 <212> DNA
 <213> Homo sapiens

<400> 40						60
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<210> 41
 <211> 1114
 <212> DNA
 <213> Homo sapiens

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<210> 42
<211> 1652
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (1640)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (1644)
<223> n equals a,t,q, or c

<220>
<221> SITE
<222> (1648)
<223> n equals a,t,g, or c

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<210> 43
<211> 1473
<212> DNA

<213> Homo sapiens

<400> 43

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<210> 44

<211> 772

<212> DNA

<213> Homo sapiens

<400> 44

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ggattgtctca	aagccctgag	ccaggytagc	acagatccca	aggaatcaac	atctcccgag	360
aaacgtgaca	tgcgtactt	ctttgtggga	yttatggca	agaggagcgt	ccagccagac	420
tcccttacgg	atgtgtatca	agagaacgtc	cccagctttg	gcattcctcaa	gtatcccccg	480
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tgtcccaatc	cccaggtgcg	cacgctccctg	ttacccttcc	tcttccctgt	tcttgcata	600
ttcttgcgt	ttgactccctt	ctccatcttt	tctacactgac	cctgggtgtgg	aaactgcata	660
gtgaatatcc	ccaaccccaa	tggcattga	ctgtagaata	cccttagagtt	cctgtagtgt	720
cctacattaa	aatataatg	tctctctcta	ttcctcaaca	aataaaggat	tt	772

<210> 45

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (15)
 <223> n equals a,t,g, or c

<400> 45
 aattcggcac gagcntggaa tgggaggcta cggaagagat ggaatggata atcagggagg 60
 ctatggwtca kttggaaagaw tggaaatggg gaacaattac agtggaggat atggtaatcc 120
 tggatggtttg ggtggatggat ggcgtggatgg tggaggcagt ggagggtact atggcaagg 180
 cggcatgagt ggaggtggat ggcgtggatgtactgaaag caaaaacacc aacatacaag 240
 tcttgcacaaac agcatctggt ctactagact ttcttacaga tttaatttct tttgtatccc 300
 aagaacttta taatgactga aggaatgtgt tttcaaaaata ttatggta aagcaacaga 360
 ttgtatggg gaaaaaaaaaaaaaa aaaaaaaaaaa ttcaaaaagc ttc 403

<210> 46
 <211> 928
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (78)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (148)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (163)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (532)
 <223> n equals a,t,g, or c

<400> 46
 cctctcgcta attaacccaa ttggccaaaa gggggatgtt gcctgcaang ccaattaaat 60
 ttggtaaac ccccaggntt ttcccccaagt ccacgacgtt gtaaaaaacg acggcccaat 120
 tggaaattgtw aaaaacsaaac yactaanag ggc当地tgg gtnacsgggc cccccccca 180
 rttttttttt tttttttttt ctgrttgwca atgagratat ttattgaggg ttatgtgag 240
 gcagggagaa gggctkgatg mcttgggrrtg ggaggagaga cccctccctt gggatcctgc 300
 agctcyagkc tcccgtgggt gggggtkagr gttgrgaacc tatgaacatt ctgttagggc 360
 cactgtcttc tccacgggtgc tcccttcatg cgtgacctgg cagctgttagc ttctgtgg 420
 ctccactgc tcrgggcgtca ggctcaggta gctgctggcc gctgacttgc tggtgctytg 480
 ttggaggggt ktgggtggctt ccactcccgc cttgacgggg ctgcyatctg cttccaggc 540
 cactgtcacr gctccgggt agaagtcaact katsagacac acyagtgtgg cttgttggc 600
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 taggacgggtg accttggtcc cagttccgaa gacmcacatga ttaccactgc tggctgttga 720
 gtaacagtag tagtcagccg catcctccac ctggggccca ctgatagtca aggtggccac 780
 tggccctgar ctggagccar agaatctcts agggatccgg agggatcggtt gttgtccctca 840

tagatgacca ggcacagggg cctggcctga cttctgkttg taccaataawa catatttctt	900
cgccaatgca tctccaggag caggttat	928

<210> 47
 <211> 885
 <212> DNA
 <213> Homo sapiens

<400> 47	
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gacagaccgc cacactcacc tgacccggga acaacaacaa tttggcgcac caaggagcag	180
cttggctgca gcagcaccag gcccaccctc ccaaactcct gtcctacagg aataataacc	240
ggccctcagg gatctcagag agattatctg catccaggtc aggagccaca tcctccctga	300
ccattactgg actccagcct gaggacgagg ctgactatta ctgcgcagca tatgacagca	360
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cactgggtgtc ttcataaagt gacttctacc cgggagccgt gacagtggcc tggaaaggcag	540
atagcagccc cgtcaaggcg ggagtggaga ccaccacacc ctccaaacaa agcaacaaca	600
agtacgcggc cagcagctac ctgagcctga cgcctgagca gtggaaagtcc cacaagact	660
acagctgcca ggtcacgcat gaaggagca ccgtggagaa gacagtggcc cctacagaat	720
gttcataaggt ttcataccct caccggccac cacgggagac tagagctgca ggatcccagg	780
ggagggggtct ctccctccac cccaaggcat caagcccttc tccctgcact caataaacc	840
tcaataaataa ttctcattgt caatcagaaa aaaaaaaaaa aaaaa	885

<210> 48
 <211> 2315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2264)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2312)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2315)
 <223> n equals a,t,g, or c

<400> 48	
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agtgactaca taaaataagta ccataattag gtacatgtcc tgtgagaaca gtgaaagggt	120
aataactgtta ttgttactctt acttggttac atgagttaac tagaaaaatgg ctacaactgc	180
taaatgatgc ttatggtctt ttgtgttcca agtggttatg atacaaataa atacacaaga	240
agaaccacat ccattcttct ctactaacta caggcagctt ggctctttt ccctatgtcc	300
tattctctac acaacaccaa acactggagg gtttctactt tgacttaaca cagccccca	360
gctcctgctt cccacagcat ttgcaaagg tgtgtccag cacctggagg caggagtata	420
tctagggaaa ctctctgcgt gttctttaa ggctaagctt ttagagaaca cctgggtggg	480
aaggctttgg gatgaatcat ccagaaggag aaacacctt ttgcctttagg atctagttac	540
tagtctccac attatgaaat cactgccacc tctggacgg agggagcagc cgccataacac	600

cttccccctt	ttaccacaca	cacacacaca	cacacacaca	cacacacaaa	ggagcaaatt	660
atgctgtgca	tggcgtgaat	aattgactgc	atttgagttt	ggagtttag	ggcaactgttg	720
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gcagcatttt	ccgtctat	tttgaggata	cttgcagggg	tatcgattgg	ggcagtggat	1260
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cacttgc	tgcttggtt	tgttattgt	gacaatttgc	acaatggttc	ctgatgttt	1440
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gttggcaggt	tgccggaaga	tatcaccatc	agaatgttcc	catgacagtt	ctccatctcc	1620
tctgcatacc	cggcagcagg	aatctggaa	agagacttggg	aaggcacagg	ttaatttggg	1680
gcaagtctt	agaccacaat	acacgttcc	ctccgaacag	ctgacttggg	tgcatgtt	1740
gggttgcga	ttctgaaaga	gcccttcagc	tacgaacagc	tctccatgtt	ggtaagttgt	1800
cccatgtac	tcgcaagact	tgttggtcac	cttattgtt	actgggggtt	aggagtctt	1860
tggcagcga	gggcagcaca	gatgaggaat	atgcacagga	gaaaggcaat	gaacatttgg	1920
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aaccaaccca	taaggttcca	ggttaaggatg	ccatctctca	cccactctgt	acttcttgc	2040
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aagaaagctc	gtgcccattt	cctgcagccc	ggggggatcc	actagttcta	gagcggccgc	2160
caccgcgg	ggagctccag	cttttggttc	ccttttagtga	gggggttaatt	tcgagcttgg	2220
cgttaatcat	gggtcatagc	ttgtttcttgc	gtgttggaaat	tggntatccc	gctcacaat	2280
tccacaacaa	caatacgc	cggaagcata	angtn			2315

<210> 49
 <211> 3175
 <212> DNA
 <213> Homo sapiens

<400> 49						
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caaattttagc	tgccatggc	caaatgtatg	ggactttagg	aaagctttc	ttactcaaaa	120
gataactaag	actatcaact	ttgatttcta	aaatgttaat	taaagggttg	taaaacaagg	180
coactactat	aattatataa	tattaaagta	attaagtttt	atgttagtta	ttttaataac	240
aacttcatga	actgtaaaaa	atattacatt	tgcatctctc	agtttacata	tttctgtatt	300
aacttggaga	aaaacccatg	tgaaaagttt	ccatgcagtt	acaaaaggcag	cagcacatgc	360
tgttttcaca	gcaacttgc	attgcctcag	aacaggcctg	cactaaagca	tcaacaaaaaa	420
atacccacca	ccccactccc	accagaaaaac	ccaaaccctt	ccatccccg	gcaaaaaatta	480
cctggtagcaa	gcaatgacct	aaaaatgctt	tcttggtaag	aagcatttt	aaaatgcaga	540
gatctgaaca	agctaagtgc	tcgtgcagat	acatgggcct	ctccccaag	agttggttcc	600
gcaagaggtt	gaaagaactc	tcaatagttt	aggaaagctc	attttcaaaa	gtataacttac	660
acatattcat	ggccattttct	ttgaaagaac	ataccctagcc	tcaactgtgg	aaaagataaa	720
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atccaccagg	ctgcagcaac	caagaaggaa	aaaacatttg	tgatttcaca	cagaccaatg	840
atcttaccta	ggtgaagcat	taatttttca	tgcattttgtt	actcaagaaaa	ataaacatac	900
aaccacttaa	aatacagcat	tcacgttgc	actggttcgt	ggtatcaggt	aagggaaaaaaa	960
tgtatgtcc	gtcccttagaa	ttttccatgt	acatgtcagt	atcctaattgc	ctacagactt	1020
cctattaatt	ttgttatcag	catctccac	ctaaaaacat	acactacatt	atgttctggg	1080
tccctgaaat	agaaaaacatc	aagcaatgtt	tatttgcaaa	ttccaatcat	tatttgcaaa	1140
atcttggttt	agagtctagtc	tttatacgca	tttcaactgc	ttggtttaaa	caaaaaagcaa	1200
caatctggtt	atctacctat	aaatttcayg	gtattttctt	aaacactgaa	gtactaaaag	1260

cactgatgat ttgttattata	1320
atcccttta taaaataatc	1380
gagcccttc caggtatctt	1440
tgaaaataagg atttctcagt	1500
ggcggttttc atgtttctg	1560
tggatggct ttacatggct	1620
acttctttk ctcacgcctc	1680
cctcattcat gattcgctcc	1740
cttcctgtct ttgcacatgt	1800
tatctgctt ttgtttgcct	1860
aaatcaccat gtcacatcagg	1920
agccaggcac attaaatgt	1980
gacccctc ttgcataatt	2040
tcttgcacg atagtgtgt	2100
cttctccat ctctgacagg	2160
taggtttatc actacaaaac	2220
ctttccgtgt gccaacagca	2280
ttatgtcac ttagtcaactc	2340
gtctcttgag gAACCTCAGC	2400
acaggttata gatgtgtca	2460
tagtccatc atccccact	2520
accaggcctg tgcaaggcga	2580
caagcagacc agtcacccatc	2640
gtgcaggaac atcaacaatc	2700
tgtcttcata accttcaaatt	2760
gggtatctgc atcttcaaaa	2820
tggtctcatc ttcatcatct	2880
cttccatgac atcctcaaat	2940
catcctcaaa atcatcaaac	3000
agaaaagtgtg gaaggctttc	3060
ccggcccagc gcccctgcgtc	3120
tccgcgatcg cagcggtttt	3175

<210> 50
 <211> 783
 <212> DNA
 <213> Homo sapiens

<400> 50	
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gtgctattcg tcctcttagc	120
aggagatgtc cccaaatcag	180
gacagacaat gccaggacaa	240
gatctcaaaac aagatgtatg	300
cttcattggt ggtatgacaa	360
caggggaaac aataacaact	420
acgctttccc tgattggata	480
ttagtactgt tcctgtaccc	540
ttccaagatc tttagcccttc	600
tttggctctt ttgatgcaca	660
ctccaacttc tagaactccc	720
acttgatgtw gaaaaaaaaa	780
aat	783

<210> 51
 <211> 3030

<212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2388)
 <223> n equals a,t,g, or c

<400> 51

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ctgtggctaa	gggagggccgg	gaagggccct	ctgtgggct	gccatttgg	ctgggaccta	120
aatgcagtaa	aggagcagct	acgggaatat	agagagtggg	gcttccaggc	agagaagcct	180
gcagtgcaaa	ggtctgcaga	caacgacctg	ggcgcttca	agggacaccaa	ggaatcatat	240
tgccagaaca	cattgtacag	gtagccaggt	gtcggtctcc	agcctgagaa	ctctggctgt	300
tgttccttgt	gtcgtcccat	atccctgcct	ggcctgcgt	ggacatcagc	aagggcctcc	360
caggcatgca	gggagggcctc	cacatatgg	tctctgagaa	ccggaagatg	gtgcccgtac	420
ccgagggggc	ttacggaaac	tttttcgagg	aacactgcta	tgtcatcctc	cacgtcccc	480
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ccactgaggt	ggagctctcc	tggAACAGCT	ttaataagg	tgacatcttc	ctgctggacc	840
taggcaagat	gtatgttc	tggAAATGGGC	ccaagccag	catttctgag	aaggctcg	900
ggctggyc	tttgcac	ctccgggaca	gggaacgtgg	ttgtggctgt	gcacagattg	960
gtgtgggtgg	ttatgtgggg	aaagccccgg	acccatgc	gatcatggag	gctgtgtctgg	1020
gcccgcagggt	gggcagmctg	cgtgcgc	cgcccagca	ggatatac	cagctgcaga	1080
aggccaatgt	tcgcctgtac	catgtctat	agaaggccaa	agacctgg	gtcctggag	1140
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ccaaagcgtca	tggacagctg	tgtgcaggc	actgttac	tgtgtcttac	acataccaga	1620
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acccctgtt	tgggaaagg	ctgtatgt	gatcagcgt	agatggc	ggtgggtgg	2040
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tgggaggccc	tgggaggccc	gggccccct	ccccagca	aagggttcc	ctgaggaggt	2160
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gctggtcaag	caggscat	agcccccac	cttcattgg	ttgttcttca	cttgggacc	2460
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caatggcagg	gcaggtggcc	tggccctgc	ggccctcaag	ggctcccagg	acagctcaga	2640

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<210> 52
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 52
 Met Glu His Ala Ala Gly Leu Pro Val Thr Arg His Pro Leu Ala Leu
 1 5 10 15
 Leu Leu Ala Leu Cys Pro Gly Pro Phe Pro Ala Leu Leu Leu Pro Leu
 20 25 30
 Leu Pro Trp Gly Tyr Pro Leu Ala Pro Pro Gly Leu Cys Lys Leu Pro
 35 40 45
 Gln Gly Ala Pro Leu Pro Cys Ser Ser Xaa Leu Thr Ser
 50 55 60

<210> 53
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 53
 Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala Xaa Gly
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 Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val Ala Leu
 20 25 30
 Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro Asn Gln Ala
 35 40 45

Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp Asn Gln Tyr Val
 50 55 60

Val Gln Leu Lys Ala Val Phe Pro His Gly Gly Gly Phe Val Leu Ala
 65 70 75 80

Phe Glu Phe Met Leu Ser Asp Leu Ala Glu Val Val Arg His Ala Gln
 85 90 95

Arg Pro Leu Ala Gln Ala Gln Val Lys Ser Tyr Leu Gln Met Leu Leu
 100 105 110

Lys Gly Val Ala Phe Cys His Ala Asn Asn Ile Val His Arg Asp Leu
 115 120 125

Lys Pro Ala Asn Leu Leu Ile Ser Ala Ser Gly Gln Leu Lys Ile Ala
 130 135 140

Asp Phe Gly Leu Ala Arg Val Phe Ser Pro Asp Gly Ser Arg Leu Tyr
 145 150 155 160

Thr His Gln Val Ala Thr Arg Ser Ser Leu Ser Cys Arg Thr Thr Thr
 165 170 175

Arg Ser Pro Leu Arg Ser Arg Cys Pro Cys Pro Trp Arg Xaa Cys Cys
 180 185 190

Leu Thr Ser Leu Pro Arg His Trp Ile Cys Trp Val Asn Ser Phe Ser
 195 200 205

Thr Leu Leu Thr Ser Ala Ser Gln Leu Pro Arg Leu Ser Ser Ile Ser
 210 215 220

Thr Ser Ser Gln Leu Pro Cys Leu Pro Ile His Leu Ser Cys Arg Phe
 225 230 235 240

Leu Ser Val

<210> 54
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 54
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15

Ala Glu Leu Leu Ser Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30

Gly Ser Gln Gly Leu Gly Leu Asn Asn Cys Arg Ala Ala Cys His Asp
 35 40 45

Leu Ser His Leu Leu Leu Ser His Ser Ala Ile Asn Gln Thr Lys Glu
 50 55 60

Phe
65

<210> 55
<211> 37
<212> PRT
<213> Homo sapiens

<400> 55
Met Leu Ala Arg Lys Ala Glu Arg Gly Ser Met Gly Thr Ala Arg Asp
1 5 10 15

Ser His Ile Leu Leu Val Cys Ser Val Val His Pro Ala Ser Ala Gln
20 25 30

Pro Val Tyr Thr Val
35

<210> 56
<211> 317
<212> PRT
<213> Homo sapiens

<400> 56
Met Leu Ser Phe Lys Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15

Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Ala Arg
20 25 30

Arg Arg Arg Cys Leu Asn Gly Asn Pro Pro Lys Arg Leu Lys Arg Arg
35 40 45

Asp Arg Arg Met Met Ser Gln Leu Glu Leu Leu Ser Gly Gly Glu Met
50 55 60

Leu Cys Gly Gly Phe Tyr Pro Arg Leu Ser Cys Cys Leu Arg Ser Asp
65 70 75 80

Ser Pro Gly Leu Gly Arg Leu Glu Asn Lys Ile Phe Ser Val Thr Asn
85 90 95

Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile Lys Cys Ala Leu Cys
100 105 110

Ser Pro His Ser Gln Ser Leu Phe His Ser Pro Glu Arg Glu Val Leu
115 120 125

Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys Asp Tyr Cys Lys Glu
130 135 140

Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly Phe Leu Gln Thr Thr
145 150 155 160

Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys Asp Gly Gly Leu Cys
165 170 175

Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly Pro Ala Ser Asn Tyr
 180 185 190

Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu Glu Ile Ser Arg Lys
 195 200 205

His Lys His Asn Cys Phe Cys Ile Gln Glu Val Val Ser Gly Leu Arg
 210 215 220

Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly Ser Gln Arg Leu Phe
 225 230 235 240

Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu Thr Pro Glu Gly Glu
 245 250 255

Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys Leu Val Gln Ser Gly
 260 265 270

Ile Lys Val Gly Phe Leu Asn Phe Ile Tyr Phe Cys Ala Gly Tyr Val
 275 280 285

Asn Phe Ile Leu Val Leu Pro Ser Ser Leu Lys Val Phe Leu Cys Asn
 290 295 300

Lys Arg Lys Asn Leu Ala Gly Glu Asn Lys Gly Ala Thr
 305 310 315

<210> 57

<211> 41

<212> PRT

<213> Homo sapiens

<400> 57

Met Ser Trp Gly Ile Trp Lys Gly Leu Asp Leu Phe Pro Leu Ile Lys
 1 5 10 15

Gly Asn Ser Ser Leu Cys Leu Phe Leu Leu Val Val Pro Lys Gly Tyr
 20 25 30

Ser Ser Ser Glu Ile Thr Arg Ala Leu
 35 40

<210> 58

<211> 57

<212> PRT

<213> Homo sapiens

<400> 58

Met Ser Leu Pro Cys His Leu Leu Pro Gly Leu Leu Gln Gln Leu Leu
 1 5 10 15

Thr Ser Leu Pro Ala Phe Gln Phe Ser Ala Pro Leu Gln Val Phe Ser
 20 25 30

Leu Asp Gly Leu Ser Leu Pro Ala Pro Lys Leu Leu Thr Ala Ser Leu

35

40

45

Cys Leu Gln Asp Glu Val Arg Ala Val
 50 55

<210> 59
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 59
 Met Ser Ser Trp Pro Phe Cys Pro Ser Leu Cys Phe Ser Leu Ser Asn
 1 5 10 15

Leu Ile Pro Gly Ser Gly Leu Leu Pro Val Glu Thr Gly Glu Leu Gly
 20 25 30

Leu Leu Ser Ala Ala Tyr Leu Leu Pro Phe Thr Cys Ile Gln Leu Leu
 35 40 45

Gly Leu Gly Pro
 50

<210> 60
 <211> 296
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (281)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 60
 Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg
 1 5 10 15

Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu
 20 25 30

Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly
 35 40 45

Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg
 50 55 60

Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn
 65 70 75 80

Arg Arg Ser Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met Phe
 85 90 95

Ser Lys Val Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg Met
 100 105 110

Gly Leu Leu Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys

115

120

125

Pro Pro Leu Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys
 130 135 140

Thr Ile Asp Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile Val
 145 150 155 160

Glu Phe Phe Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile
 165 170 175

Tyr Ala Asp Leu Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly
 180 185 190

Lys Val Asp Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val
 195 200 205

Ser Thr Ser Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln
 210 215 220

Gly Gly Lys Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg
 225 230 235 240

Ala Val Ser Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe Asn
 245 250 255

Leu Asn Glu Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala Gly Asp
 260 265 270

Asn Ile Pro Glu Glu Gln Pro Val Xaa Ser Thr Pro Thr Thr Val Ser
 275 280 285

Asp Gly Glu Asn Lys Lys Asp Lys
 290 295

<210> 61
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 61
 Met Arg Ala Phe Arg Lys Asn Lys Thr Leu Gly Tyr Gly Val Pro Met
 1 5 10 15

Leu Leu Leu Ile Val Gly Gly Ser Phe Gly Leu Arg Glu Phe Ser Gln
 20 25 30

Ile Arg Tyr Asp Ala Val Lys Ser Lys Met Asp Pro Glu Leu Glu Lys
 35 40 45

Lys Leu Lys Glu Asn Lys Ile Ser Leu Glu Ser Glu Tyr Glu Lys Ile
 50 55 60

Lys Asp Ser Lys Phe Asp Asp Trp Lys Asn Ile Arg Gly Pro Arg Pro
 65 70 75 80

Trp Glu Asp Pro Asp Leu Leu Gln Gly Arg Asn Pro Glu Ser Leu Lys

85

90

95

Thr Lys Thr Thr
100

<210> 62
<211> 47
<212> PRT
<213> Homo sapiens

<400> 62
Met Ile Gln Leu Ile Leu Gln Phe Trp Tyr Leu Phe Ser Met Leu Leu
1 5 10 15

Lys Pro Val Gln Gln Cys Gln His Cys Ser Gln Ile Thr Pro Ser Gly
20 25 30

Thr Met Pro Thr Ser Glu Thr Val Phe Leu Ile Leu Phe Leu Pro
35 40 45

<210> 63
<211> 162
<212> PRT
<213> Homo sapiens

<400> 63
Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys Cys
1 5 10 15

Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val Trp Tyr
20 25 30

Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser Ala Leu Ala
35 40 45

Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu Gly Gly Asp Phe
50 55 60

Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala Ile Ala Ile Ser Leu
65 70 75 80

Leu Met Ile Leu Ile Cys Ala Met Ala Thr Tyr Gly Ala Tyr Lys Gln
85 90 95

Arg Ala Ala Gly Ile Ile Pro Phe Phe Cys Tyr Gln Ile Phe Asp Phe
100 105 110

Ala Leu Asn Met Leu Val Ala Ile Thr Val Leu Ile Tyr Pro Asn Ser
115 120 125

Ile Gln Glu Tyr Ile Arg Gln Leu Pro Pro Asn Phe Pro Tyr Arg Asp
130 135 140

Asp Val Met Cys Ser Glu Ser Tyr Leu Phe Gly Pro Tyr Tyr Ser Ser
145 150 155 160

Val Tyr

<210> 64
 <211> 335
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 64
 Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
 1 5 10 15

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 20 25 30

Leu Pro Xaa Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 35 40 45

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 50 55 60

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 65 70 75 80

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 85 90 95

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Val Glu
 100 105 110

Gly Tyr Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg
 115 120 125

Gly Phe Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp
 130 135 140

Glu Gly Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu
 145 150 155 160

Leu Gln Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser
 165 170 175

Leu Leu Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp
 180 185 190

Ser Leu Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val
 195 200 205

Asp Asn Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His
 210 215 220

Arg Val Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu
 225 230 235 240

Asn Phe Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp
 245 250 255

Arg Phe His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu
 260 265 270

Thr Trp Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val
 275 280 285

Gln Leu Ile Thr Gly Val Asp Phe Xaa Gly Thr Thr Val Gly Phe Ala
 290 295 300

Arg Val Ser Thr Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp
 305 310 315 320

His Ser Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu
 325 330 335

<210> 65

<211> 356

<212> PRT

<213> Homo sapiens

<400> 65

Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp Tyr Arg Gly Arg
 1 5 10 15

Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala His Ala Val Asp
 20 25 30

Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg Gly Arg Gly Thr
 35 40 45

Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His Ala Asp Phe Arg
 50 55 60

Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg Glu Gln Ser Arg
 65 70 75 80

Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp Phe Arg Asp Lys
 85 90 95

Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Ser Gly Thr Thr Asp
 100 105 110

Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp Phe Arg Gly Arg
 115 120 125

His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly Arg Glu Met Gly Ser
 130 135 140

Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val Asp Pro Asn Ile
 145 150 155 160

Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu His Ser Gly Met
 165 170 175

Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His Thr Ile Glu Arg
 180 185 190

Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His Ser Glu Thr Arg
 195 200 205

Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu Ser Pro Ala Asp
 210 215 220

Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp Lys Ser Gln Leu
 225 230 235 240

Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe Lys Glu Glu
 245 250 255

Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp Tyr Arg Ser Met
 260 265 270

Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser Gln Met Phe Gly
 275 280 285

Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr Ala Arg Asp Ala
 290 295 300

Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly Pro Ser Glu Glu
 305 310 315 320

Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro Glu Asp Ala Thr
 325 330 335

Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp Gly Met Pro Val
 340 345 350

Lys Asn Cys Ser
 355

<210> 66
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 66
 Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Ala Val
 1 5 10 15

Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys Phe Gly Pro
 20 25 30

Tyr Asn Val Ser His Leu Val Gly Tyr His Gln Arg Lys Ser Pro Trp
 35 40 45

Trp Arg Ser Ile Ala Val Xaa Phe Ser Ser Leu Asn Ala Ser Leu Asp
 50 55 60

Pro Leu Leu Phe Tyr Phe Ser Ser Ser Val Val Arg Arg Ala Phe Gly
 65 70 75 80

Arg Gly Leu Gln Val Leu Arg Asn Gln Gly Ser Ser Leu Leu Gly Arg
 85 90 95

Arg Gly Lys Asp Thr Ala Glu Gly Thr Asn Glu Asp Arg Gly Val Gly
 100 105 110

Gln Gly Glu Gly Met Pro Ser Ser Asp Phe Thr Thr Glu
 115 120 125

<210> 67

<211> 77

<212> PRT

<213> Homo sapiens

<400> 67

Met Arg Leu Val Phe Phe Gly Val Ser Ile Ile Leu Val Leu Gly
 1 5 10 15

Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly Cys Pro
 20 25 30

Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala Glu Arg
 35 40 45

Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu Ser Asn
 50 55 60

Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
 65 70 75

<210> 68

<211> 121

<212> PRT

<213> Homo sapiens

<400> 68

Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 1 5 10 15

Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 20 25 30

Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45

Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 50 55 60

Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 65 70 75 80

Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg Ser Val Gln
 85 90 95

Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110

Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 69

<211> 26

<212> PRT

<213> Homo sapiens

<400> 69

Met Val Val Met Glu Val Leu Met Thr Met Val Ala Ile Ile Ile Thr
 1 5 10 15

Ala Met Gly Met Met Ala Leu Met Thr Glu
 20 25

<210> 70

<211> 235

<212> PRT

<213> Homo sapiens

<400> 70

Met Pro Trp Val Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
 1 5 10 15

Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
 20 25 30

Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
 35 40 45

Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
 50 55 60 80

Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
 65 70 75 80

Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
 85 90 95

Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
 100 105 110

Ser Ser Leu Ala Val Trp Met Phe Gly Gly Thr Lys Leu Thr Val

115

120

125

Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser
 130 135 140

Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser
 145 150 155 160

Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser
 165 170 175

Pro Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn
 180 185 190

Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp
 195 200 205

Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr
 210 215 220

Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> 71
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 71
 Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn
 1 5 10 15

Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr
 20 25 30

Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val
 35 40 45

Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys
 50 55 60

Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp
 65 70 75 80

Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe
 85 90 95

Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu
 100 105 110

Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu
 115 120 125

Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys
 130 135 140

Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe

145	150	155	160
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Glu	Glu	Leu	Pro	His	Phe	Lys	Leu	Val	Thr	Arg	Thr	Thr	Leu	Ser	Gln
165							170						175		

Trp	Lys	Ile	Phe	Thr	Glu	Gly	Glu	Ala	Gln	Ile	Ser	Gln	Met	Cys	Ser
180							185						190		

Ser	Arg	Val	Cys	Arg	Thr	Glu	Leu	Glu	Asp	Leu	Val	Lys	Val	Leu	Tyr
195							200					205			

Leu	Glu	Arg	Ser	Glu	Lys	Gly	His	Cys
210							215	

<210> 72

<211> 492

<212> PRT

<213> Homo sapiens

<400> 72

Met	Lys	Ala	Phe	His	Thr	Phe	Cys	Val	Val	Leu	Leu	Val	Phe	Gly	Ser
1							5			10			15		

Val	Ser	Glu	Ala	Lys	Phe	Asp	Asp	Phe	Glu	Asp	Glu	Glu	Asp	Ile	Val
							20		25			30			

Glu	Tyr	Asp	Asp	Asn	Asp	Phe	Ala	Glu	Phe	Glu	Asp	Val	Met	Glu	Asp
							35		40			45			

Ser	Val	Thr	Glu	Ser	Pro	Gln	Arg	Val	Ile	Ile	Thr	Glu	Asp	Asp	Glu
							50		55			60			

Asp	Glu	Thr	Thr	Val	Glu	Leu	Glu	Gly	Gln	Asp	Glu	Asn	Gln	Glu	Gly
							65		70			75		80	

Asp	Phe	Glu	Asp	Ala	Asp	Thr	Gln	Glu	Gly	Asp	Thr	Glu	Ser	Glu	Pro
							85		90			95			

Tyr	Asp	Asp	Glu	Glu	Phe	Glu	Gly	Tyr	Glu	Asp	Lys	Pro	Asp	Thr	Ser
							100		105			110			

Ser	Ser	Lys	Asn	Lys	Asp	Pro	Ile	Thr	Ile	Val	Asp	Val	Pro	Ala	His
							115		120			125			

Leu	Gln	Asn	Ser	Trp	Glu	Ser	Tyr	Tyr	Leu	Glu	Ile	Leu	Met	Val	Thr
							130		135			140			

Gly	Leu	Leu	Ala	Tyr	Ile	Met	Asn	Tyr	Ile	Ile	Gly	Lys	Asn	Lys	Asn
							145		150			155		160	

Ser	Arg	Leu	Ala	Gln	Ala	Trp	Phe	Asn	Thr	His	Arg	Glu	Leu	Leu	Glu
							165		170			175			

Ser	Asn	Phe	Thr	Leu	Val	Gly	Asp	Asp	Gly	Thr	Asn	Lys	Glu	Ala	Thr
							180		185			190			

Ser	Thr	Gly	Lys	Leu	Asn	Gln	Glu	Asn	Glu	His	Ile	Tyr	Asn	Leu	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

195

200

205

Cys Ser Gly Arg Val Cys Cys Glu Gly Met Leu Ile Gln Leu Arg Phe
 210 215 220

Leu Lys Arg Gln Asp Leu Leu Asn Val Leu Ala Arg Met Met Arg Pro
 225 230 235 240

Val Ser Asp Gln Val Gln Ile Lys Val Thr Met Asn Asp Glu Asp Met
 245 250 255

Asp Thr Tyr Val Phe Ala Val Gly Thr Arg Lys Ala Leu Val Arg Leu
 260 265 270

Gln Lys Glu Met Gln Asp Leu Ser Glu Phe Cys Ser Asp Lys Pro Lys
 275 280 285

Ser Gly Ala Lys Tyr Gly Leu Pro Asp Ser Leu Ala Ile Leu Ser Glu
 290 295 300

Met Gly Glu Val Thr Asp Gly Met Met Asp Thr Lys Met Val His Phe
 305 310 315 320

Leu Thr His Tyr Ala Asp Lys Ile Glu Ser Val His Phe Ser Asp Gln
 325 330 335

Phe Ser Gly Pro Lys Ile Met Gln Glu Glu Gly Gln Pro Leu Lys Leu
 340 345 350

Pro Asp Thr Lys Arg Thr Leu Leu Phe Thr Phe Asn Val Pro Gly Ser
 355 360 365

Gly Asn Thr Tyr Pro Lys Asp Met Glu Ala Leu Leu Pro Leu Met Asn
 370 375 380

Met Val Ile Tyr Ser Ile Asp Lys Ala Lys Lys Phe Arg Leu Asn Arg
 385 390 395 400

Glu Gly Lys Gln Lys Ala Asp Lys Asn Arg Ala Arg Val Glu Glu Asn
 405 410 415

Phe Leu Lys Leu Thr His Val Gln Arg Gln Glu Ala Ala Gln Ser Arg
 420 425 430

Arg Glu Glu Lys Lys Arg Ala Glu Lys Glu Arg Ile Met Asn Glu Glu
 435 440 445

Asp Pro Glu Lys Gln Arg Arg Leu Glu Glu Ala Ala Leu Arg Arg Glu
 450 455 460

Gln Lys Lys Leu Glu Lys Lys Gln Met Lys Met Lys Gln Ile Lys Val
 465 470 475 480

Lys Ala His Val Lys Pro Ser Gln Arg Phe Glu Phe
 485 490

<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 73
 Met Leu Phe Leu Cys Leu Leu Pro Ser Leu Phe Pro Pro Gly Leu Pro
 1 5 10 15
 Thr Thr His Tyr Ile Thr Ser Ile Cys Asn Gln Ser Cys Tyr His His
 20 25 30
 Cys Ala Arg Ala
 35

<210> 74
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 74
 Met Ala Glu Leu Leu Xaa Val Leu Ser Val Gln Ser Ala Val His
 1 5 10 15

Glu Val Glu Ala Asn Glu Gly Gly Lys Gln Ser His Thr Pro Ala His
 20 25 30

Arg Gly Trp Asn Arg Arg Ala Ala Glu Val Arg Lys Ala Arg Leu Pro
 35 40 45

Leu Gly Val Thr Val Gly Pro Arg Cys Arg His Ala Val His Pro Ser
 50 55 60

Lys Gly Gly Ile Ser Ala Xaa Ala Val Leu
 65 70

<210> 75
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 75
 Met Gly Ser Ser Gly Leu Leu Ser Leu Leu Val Leu Phe Val Leu Leu
 1 5 10 15
 Ala Asn Val Gln Gly Pro Gly Leu Thr Asp Trp Leu Phe Pro Arg Arg
 20 25 30

Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val Cys
 35 40 45

Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe Ser
 50 55 60

Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met Pro
 65 70 75 80

Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr Asp
 85 90 95

Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln Gly
 100 105 110

Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys Lys
 115 120 125

Asn Lys Arg Phe Pro
 130

<210> 76

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 76

Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
 1 5 10 15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
 20 25 30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
 35 40 45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
 50 55 60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

100

105

110

Ala Pro Ser Glu Gln Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
 115 120 125

Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
 130 135 140

Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
 145 150 155 160

Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
 165 170 175

Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
 180 185 190

Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
 195 200 205

Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
 210 215 220

Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
 225 230 235 240

Ile Ala Ala Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
 245 250 255

Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser
 260 265 270

Phe Gln Lys Ser Asn Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
 275 280 285

Asp Phe Lys His Thr Lys Ser Phe Ile Ile
 290 295

<210> 77

<211> 856

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (595)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (683)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 77

Met Asp Ile Ser Lys Gly Leu Pro Gly Met Gln Gly Gly Leu His Ile
1 5 10 15Trp Ile Ser Glu Asn Arg Lys Met Val Pro Val Pro Glu Gly Ala Tyr
20 25 30Gly Asn Phe Phe Glu Glu His Cys Tyr Val Ile Leu His Val Pro Gln
35 40 45Ser Pro Lys Xaa Thr Gln Gly Ala Ser Ser Asp Leu His Tyr Trp Val
50 55 60Gly Lys Gln Ala Gly Ala Glu Ala Gln Gly Ala Ala Glu Ala Phe Gln
65 70 75 80Gln Arg Leu Gln Asp Glu Leu Gly Gly Gln Thr Val Leu His Arg Glu
85 90 95Ala Gln Gly His Glu Ser Asp Cys Phe Cys Ser Tyr Phe Arg Pro Gly
100 105 110Ile Ile Tyr Arg Lys Gly Gly Leu Ala Ser Asp Leu Lys His Val Glu
115 120 125Thr Asn Leu Phe Asn Ile Gln Arg Leu Leu His Ile Lys Gly Arg Lys
130 135 140His Val Ser Ala Thr Glu Val Glu Leu Ser Trp Asn Ser Phe Asn Lys
145 150 155 160Gly Asp Ile Phe Leu Leu Asp Leu Gly Lys Met Met Ile Gln Trp Asn
165 170 175Gly Pro Lys Thr Ser Ile Ser Glu Lys Ala Arg Gly Leu Xaa Leu Thr
180 185 190Tyr Ser Leu Arg Asp Arg Glu Arg Gly Gly Arg Ala Gln Ile Gly
195 200 205Val Val Asp Asp Glu Ala Lys Ala Pro Asp Leu Met Gln Ile Met Glu
210 215 220Ala Val Leu Gly Arg Arg Val Gly Xaa Leu Arg Ala Ala Thr Pro Ser
225 230 235 240

Lys Asp Ile Asn Gln Leu Gln Lys Ala Asn Val Arg Leu Tyr His Val

245

250

255

Tyr Glu Lys Gly Lys Asp Leu Val Val Leu Glu Leu Ala Thr Pro Pro
 260 265 270

Leu Thr Gln Asp Leu Leu Gln Glu Glu Asp Phe Tyr Ile Leu Asp Gln
 275 280 285

Gly Gly Phe Lys Ile Tyr Val Trp Gln Gly Arg Met Ser Ser Leu Gln
 290 295 300

Glu Arg Lys Ala Ala Phe Ser Arg Ala Val Gly Phe Ile Gln Ala Lys
 305 310 315 320

Gly Tyr Pro Thr Tyr Thr Asn Val Glu Val Val Asn Asp Gly Ala Glu
 325 330 335

Ser Ala Ala Phe Lys Gln Leu Phe Arg Thr Trp Ser Glu Lys Arg Arg
 340 345 350

Arg Asn Gln Lys Leu Gly Gly Arg Asp Lys Ser Ile His Val Lys Leu
 355 360 365

Asp Val Gly Lys Leu His Thr Gln Pro Lys Leu Ala Ala Gln Leu Arg
 370 375 380

Met Val Asp Asp Gly Ser Gly Lys Val Glu Val Trp Cys Ile Gln Asp
 385 390 395 400

Leu His Arg Gln Pro Val Asp Pro Lys Arg His Gly Gln Leu Cys Ala
 405 410 415

Gly Asn Cys Tyr Leu Val Leu Tyr Thr Tyr Gln Arg Leu Gly Arg Val
 420 425 430

Gln Tyr Ile Leu Tyr Leu Trp Gln Gly His Gln Ala Thr Ala Asp Glu
 435 440 445

Ile Glu Ala Leu Asn Ser Asn Ala Glu Glu Leu Asp Val Met Tyr Gly
 450 455 460

Gly Val Leu Val Gln Glu His Val Thr Met Gly Ser Glu Pro Pro His
 465 470 475 480

Phe Leu Ala Ile Phe Gln Gly Gln Leu Val Ile Phe Gln Glu Arg Ala
 485 490 495

Gly His His Gly Lys Gly Gln Ser Ala Ser Thr Thr Arg Leu Phe Gln
 500 505 510

Val Gln Gly Thr Asp Ser His Asn Thr Arg Thr Met Glu Val Pro Ala
 515 520 525

Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile Phe Leu Leu Val Thr Ala
 530 535 540

Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly Cys Asn Gly Asp Gln Arg
 545 550 555 560

Glu Met Ala Arg Val Val Val Thr Val Ile Ser Arg Lys Asn Glu Glu
 565 570 575
 Thr Val Leu Glu Gly Gln Glu Pro Pro His Phe Trp Glu Ala Leu Gly
 580 585 590
 Gly Arg Xaa Pro Tyr Pro Ser Asn Lys Arg Leu Pro Glu Glu Val Pro
 595 600 605
 Ser Phe Gln Pro Arg Leu Phe Glu Cys Ser Ser His Met Gly Cys Leu
 610 615 620
 Val Leu Ala Glu Val Gly Phe Phe Ser Gln Glu Asp Leu Asp Lys Tyr
 625 630 635 640
 Asp Ile Met Leu Leu Asp Thr Trp Gln Glu Ile Phe Leu Trp Leu Gly
 645 650 655
 Glu Ala Ala Ser Glu Trp Lys Glu Ala Val Ala Trp Gly Gln Glu Tyr
 660 665 670
 Leu Lys Thr His Pro Ala Gly Arg Ser Pro Xaa Thr Pro Ile Val Leu
 675 680 685
 Val Lys Gln Gly His Glu Pro Pro Thr Phe Ile Gly Trp Phe Phe Thr
 690 695 700
 Trp Asp Pro Tyr Lys Trp Thr Ser His Pro Ser His Lys Glu Val Val
 705 710 715 720
 Asp Gly Ser Pro Ala Ala Ala Ser Thr Ile Ser Glu Ile Thr Ala Glu
 725 730 735
 Val Asn Asn Phe Arg Leu Ser Arg Trp Pro Gly Asn Gly Arg Ala Gly
 740 745 750
 Ala Val Ala Leu Gln Ala Leu Lys Gly Ser Gln Asp Ser Ser Glu Asn
 755 760 765
 Asp Leu Val Arg Ser Pro Lys Ser Ala Gly Ser Arg Thr Ser Ser Ser
 770 775 780
 Val Ser Ser Thr Ser Ala Thr Ile Asn Gly Gly Leu Arg Arg Glu Gln
 785 790 795 800
 Leu Met His Gln Ala Val Glu Asp Leu Pro Glu Gly Val Asp Pro Ala
 805 810 815
 Arg Arg Glu Phe Tyr Leu Ser Asp Ser Asp Phe Gln Asp Ile Phe Gly
 820 825 830
 Lys Ser Lys Glu Glu Phe Tyr Ser Met Ala Thr Trp Arg Gln Arg Gln
 835 840 845
 Glu Lys Lys Gln Leu Gly Phe Phe
 850 855

<210> 78
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Pro Cys Val Phe Cys Tyr Leu Leu Leu Val Gln Phe Thr Tyr
 1 5 10 15
 Thr Phe Thr Leu Ser Asn Pro Asn Ser Ser Ser Arg Pro Asp Ser Asp
 20 25 30
 Phe Asn Phe Leu Lys Ala Ile
 35

<210> 79
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Ala Val Leu Tyr Glu
 1 5 10 15
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp
 20 25 30

<210> 80
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Pro Ala Leu Val Leu Leu Pro Arg Val Leu Pro Pro Gly Gln Gly
 1 5 10 15
 Glu Val Gln Arg Val Arg Cys Pro Tyr Val Gly Asn Ser Ser Gly Arg
 20 25 30
 Lys Ile Trp Phe Gly Phe Ile Leu Arg Ala Ile Lys His
 35 40 45

<210> 81
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30

Gly Ser Gln Gly Pro Gly Phe
35

<210> 82
<211> 36
<212> PRT
<213> Homo sapiens

<400> 82
Met Leu Ser Phe Lys Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15

Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Gln Gly
20 25 30

Gly Glu Gly Ala
35

<210> 83
<211> 293
<212> PRT
<213> Homo sapiens

<400> 83
Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg Leu Ser Arg
1 5 10 15

Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu Ser Ala Ala
20 25 30

Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly Leu Pro Thr
35 40 45

Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu
50 55 60

Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser
65 70 75 80

Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val
85 90 95

Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu
100 105 110

Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu
115 120 125

Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp
130 135 140

Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe
145 150 155 160

Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp
165 170 175

Leu Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp
 180 185 190

Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr Ser
 195 200 205

Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly Gly Lys
 210 215 220

Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg Ala Val Ser
 225 230 235 240

Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu
 245 250 255

Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala Gly Asp Asn Ile Pro
 260 265 270

Glu Glu Gln Pro Val Ala Ser Thr Pro Thr Thr Val Ser Asp Gly Glu
 275 280 285

Asn Lys Lys Asp Lys
 290

<210> 84

<211> 143

<212> PRT

<213> Homo sapiens

<400> 84

Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
 1 5 10 15

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 20 25 30

Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 35 40 45

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 50 55 60

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 65 70 75 80

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 85 90 95

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu
 100 105 110

Gly Thr Gly Leu Ser Arg Gln Pro Gln His Leu Cys Arg Pro Gln Gly
 115 120 125

Phe Leu Pro Gly Gly Val Arg Pro Ala Pro Asp Arg Ala Pro Gly
 130 135 140

<210> 85
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 1 5 10 15
 Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 20 25 30
 Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45
 Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 50 55 60
 Ser Gln Xaa Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 65 70 75 80
 Asp Met His Asp Phe Phe Val Gly Xaa Met Gly Lys Arg Ser Val Gln
 85 90 95
 Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110
 Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 86
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met Val Leu Leu Met Val Trp Val Val Met Ala Val Val Val Glu Ala
 1 5 10 15
 Val Glu Val Thr Met Gly Lys Ala Ala
 20 25

<210> 87
 <211> 4

<212> PRT
 <213> Homo sapiens

<400> 87
 Ser Leu His Ala
 1

<210> 88
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
 1 5 10 15

Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
 20 25 30

Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
 35 40 45

Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
 50 55 60

Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
 65 70 75 80

Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
 85 90 95

Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
 100 105 110

Ser Ser Leu Ala Val Trp Met Phe Gly Gly Thr Lys Leu Thr Val
 115 120 125

Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser
 130 135 140

Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser
 145 150 155 160

Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser
 165 170 175

Pro Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn
 180 185 190

Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp
 195 200 205

Lys Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr
 210 215 220

Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
 225 230 235

<210> 89
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Ser Leu Asn Val Leu Leu Ala Leu Phe Xaa Leu Leu Leu Ala Lys
 1 5 10 15

Glu Ser Ser Cys Arg Ile Pro Ala Ala Arg Gly Asp Pro Leu Val Leu
 20 25 30

Glu Arg Pro Pro Pro Arg Trp Glu Leu Gln Leu Leu Val Pro Phe Ser
 35 40 45

Glu Gly Leu Ile Ser Ser Leu Ala Val Ile Met Gly His Ser Leu Phe
 50 55 60

Pro Gly Val Glu Ile Gly Tyr Pro Ala His Lys Phe His Asn Asn Asn
 65 70 ~ 75 80

Thr Ser Arg Lys His Xaa Val
 85

<210> 90
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 90
 Met Ala Leu His Gly Phe His Phe Asp Leu Phe His Phe His Leu Leu
 1 5 10 15

Leu Phe Gln Leu Leu Xaa Leu Thr Pro Gln Cys Ser Leu Leu Gln Pro
 20 25 30

Ala Leu Phe Leu Arg Ile Phe Leu Ile His Asp Ser Leu Leu Leu Cys
 35 40 45

Ser Phe Phe Leu Leu Pro Pro Arg Leu Cys Cys Phe Leu Ser Leu His

50	55	60
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Met Cys Gln Phe Gln Glu Val Leu Phe Tyr Ser Gly Thr Val Leu Ile		
65	70	75
		80

Cys Phe Leu Phe Ala Phe Ser Val Glu Ser Gly Leu Phe Gly Phe Ile		
85	90	95

Asn Arg Ile Asn His His Val His Gln Gly		
100	105	

<210> 91

<211> 59

<212> PRT

<213> Homo sapiens

<400> 91

Met Tyr Ala Lys Cys Gln Lys Lys Leu Ala Pro Ala Trp Leu Ile Phe		
1	5	10
		15

Phe Ile Gly Gly Met Thr Arg Lys Ile Ile Leu Ala Pro Cys Leu Ser		
20	25	30

Met Val Ala Ala Arg Gly Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn		
35	40	45

Cys Leu Asn Thr Cys Lys Asn Lys Arg Phe Pro		
50	55	

<210> 92

<211> 32

<212> PRT

<213> Homo sapiens

<400> 92

Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile Phe		
1	5	10
		15

Leu Leu Val Thr Ala Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly Leu		
20	25	30

<210> 93

<211> 178

<212> PRT

<213> Homo sapiens

<400> 93

Phe Ser Val Thr Asn Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile		
1	5	10
		15

Lys Cys Ala Leu Cys Ser Pro His Ser Gln Ser Leu Phe His Ser Pro		
20	25	30

Glu Arg Glu Val Leu Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys
 35 40 45

Asp Tyr Cys Lys Glu Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly
 50 55 60

Phe Leu Gln Thr Thr Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys
 65 70 75 80

Asp Gly Gly Leu Cys Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly
 85 90 95

Pro Ala Ser Asn Tyr Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu
 100 105 110

Glu Ile Ser Arg Lys His Lys His Asn Cys Phe Cys Ile Gln Glu Val
 115 120 125

Val Ser Gly Leu Arg Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly
 130 135 140

Ser Gln Arg Leu Phe Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu
 145 150 155 160

Thr Pro Glu Gly Glu Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys
 165 170 175

Leu Val

<210> 94

<211> 216

<212> PRT

<213> Homo sapiens

<400> 94

Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu Ile Leu Met
 1 5 10 15

Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser Ile Thr Val
 20 25 30

Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val Ala Asn Thr
 35 40 45

Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu Tyr Ile Thr
 50 55 60

Leu Cys Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu Tyr Met Gly
 65 70 75 80

Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp Glu Glu Leu
 85 90 95

Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn Trp
 100 105 110

Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp Leu Ser Leu
 115 120 125

Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp Val Gly Arg
 130 135 140

Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr Ser Pro Leu Thr
 145 150 155 160

Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly Gly Lys Glu Ala Met
 165 170 175

Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg Ala Val Ser Trp Thr Phe
 180 185 190

Ser Glu Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu Leu Tyr Gln
 195 200 205

Arg Ala Lys Lys Leu Ser Lys Ala
 210 215

<210> 95

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95

Gln Leu Ile Val Thr Ala Arg Thr Thr Arg Gly Leu Asp Pro Leu Phe
 1 5 10 15

Gly Met Cys Glu Lys Phe Leu Gln Glu Val Asp Phe Phe Gln Arg Tyr
 20 25 30

Phe Ile Ala Asp Leu Pro His Leu Gln Asp Ser Phe Val Asp Lys Leu
 35 40 45

Leu Asp Leu Met Pro Arg Leu Met Thr Ser Lys Pro Ala Glu Val Val
 50 55 60

Lys Ile Leu Gln Thr Met Leu Arg Gln Ser Ala Phe Leu His Leu Pro
 65 70 75 80

Leu Pro Glu Gln Ile His Lys Ala Ser Ala Thr Ile Ile Glu Pro Ala
 85 90 95

Gly Glu Phe Arg Gln Pro Phe Ala Val Tyr Leu Trp Val Gly Gly Cys
 100 105 110

Pro Gly Met Leu Met Gln Pro Trp Ser Met Cys Arg Ile Leu Arg Thr
 115 120 125

Leu Leu Arg Ser Arg Val Leu Tyr Pro Asp Gly Gln Xaa Ser Asp Asp
 130 135 140

Ser Pro Gln Ala Cys Arg Leu Pro Glu Ser Trp Pro Arg Ala Ala Pro
 145 150 155 160

Ala His His Ser Gly Leu Ser Leu Pro His Arg Leu Asp Arg Gly Met
 165 170 175

Pro Gly Gly Ser Glu Ala Ala Gly Leu Gln Leu Gln Cys Ser His
 180 185 190

Ser Lys Met Pro
 195

<210> 96
 <211> 255
 <212> PRT
 <213> Homo sapiens

<400> 96
 Ile His Leu Ala Leu Val Glu Leu Leu Lys Asn Leu Thr Lys Tyr Pro
 1 5 10 15

Thr Asp Arg Asp Ser Ile Trp Lys Cys Leu Lys Phe Leu Gly Ser Arg
 20 25 30

His Pro Thr Leu Val Leu Pro Leu Val Pro Glu Leu Leu Ser Thr His
 35 40 45

Pro Phe Phe Asp Thr Ala Glu Pro Asp Met Asp Asp Pro Ala Tyr Ile
 50 55 60

Ala Val Leu Val Leu Ile Phe Asn Ala Ala Lys Thr Cys Pro Thr Met
 65 70 75 80

Pro Ala Leu Phe Ser Asp His Thr Phe Arg His Tyr Ala Tyr Leu Arg
 85 90 95

Asp Ser Leu Ser His Leu Val Pro Ala Leu Arg Leu Pro Gly Arg Lys
 100 105 110

Leu Val Ser Ser Ala Val Ser Pro Ser Ile Ile Pro Gln Glu Asp Pro
 115 120 125

Ser Gln Gln Phe Leu Gln Gln Ser Leu Glu Arg Val Tyr Ser Leu Gln
 130 135 140

His Leu Asp Pro Gln Gly Ala Gln Glu Leu Leu Glu Phe Thr Ile Arg
 145 150 155 160

Asp Leu Gln Arg Leu Gly Glu Leu Gln Ser Glu Leu Ala Gly Val Ala
 165 170 175

Asp Phe Ser Ala Thr Tyr Leu Arg Cys Gln Leu Leu Leu Ile Lys Ala
 180 185 190

Leu Gln Glu Lys Leu Trp Asn Val Ala Ala Pro Leu Tyr Leu Lys Gln
 195 200 205

Ser Asp Leu Ala Ser Ala Ala Lys Gln Ile Met Glu Glu Thr Tyr
 210 215 220

Lys Met Glu Phe Met Tyr Ser Gly Val Glu Asn Lys Gln Val Val Ile
 225 230 235 240

Ile His His Met Arg Leu Gln Ala Lys Ala Leu Gln Leu Ile Val
 245 250 255

<210> 97

<211> 137

<212> PRT

<213> Homo sapiens

<400> 97

Arg Phe Tyr Ser Asn Ser Cys Cys Leu Cys Cys His Val Arg Thr Gly
 1 5 10 15

Thr Ile Leu Leu Gly Val Trp Tyr Leu Ile Ile Asn Ala Val Val Leu
 20 25 30

Leu Ile Leu Leu Ser Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser
 35 40 45

Ser Ser Glu Leu Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met
 50 55 60

Cys Ile Ala Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met
 65 70 75 80

Ala Thr Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Gly Ile Ile Pro Phe
 85 90 95

Phe Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
 100 105 110

Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu
 115 120 125

Pro Pro Asn Phe Pro Tyr Arg Asp Asp
 130 135

<210> 98

<211> 87

<212> PRT

<213> Homo sapiens

<400> 98

Phe Pro Thr Glu Met Met Ser Cys Ala Val Asn Pro Thr Cys Leu Val
 1 5 10 15

Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr
 20 25 30

Leu Ile Ser Cys Val Trp Asn Cys Tyr Arg Tyr Ile Asn Gly Arg Asn
 35 40 45

Ser Ser Asp Val Leu Val Tyr Val Thr Ser Asn Asp Thr Thr Val Leu
 50 55 60

Leu Pro Pro Tyr Asp Asp Ala Thr Val Asn Gly Ala Ala Lys Glu Pro
 65 70 75 80

Pro Pro Pro Tyr Val Ser Ala
 85

<210> 99

<211> 97

<212> PRT

<213> Homo sapiens

<400> 99

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 1 5 10 15

Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 20 25 30

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 35 40 45

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 50 55 60

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 65 70 75 80

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu
 85 90 95

Gly

<210> 100

<211> 240

<212> PRT

<213> Homo sapiens

<400> 100

Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg Gly Phe
 1 5 10 15

Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp Glu Gly
 20 25 30

Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu Leu Gln
 35 40 45

Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser Leu Leu

50

55

60

Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp Ser Leu
 65 70 75 80

Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val Asp Asn
 85 90 95

Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His Arg Val
 100 105 110

Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu Asn Phe
 115 120 125

Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp Arg Phe
 130 135 140

His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu Thr Trp
 145 150 155 160

Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val Gln Leu
 165 170 175

Ile Thr Gly Val Asp Phe Thr Gly Thr Thr Val Gly Phe Ala Arg Val
 180 185 190

Ser Ala Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp His Ser
 195 200 205

Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu Met Gly His
 210 215 220

Asn Leu Gly Met Asp His Asp Glu Asn Val Gln Gly Cys Arg Cys Gln
 225 230 235 240

<210> 101

<211> 118

<212> PRT

<213> Homo sapiens

<400> 101

Phe Glu Ala Gly Arg Cys Ile Met Ala Arg Pro Ala Leu Ala Pro Ser
 1 5 10 15

Phe Pro Arg Met Phe Ser Asp Cys Ser Gln Ala Tyr Leu Glu Ser Phe
 20 25 30

Leu Glu Arg Pro Gln Ser Val Cys Leu Ala Asn Ala Pro Asp Leu Ser
 35 40 45

His Leu Val Gly Gly Pro Val Cys Gly Asn Leu Phe Val Glu Arg Gly
 50 55 60

Glu Gln Cys Asp Cys Gly Pro Pro Glu Asp Cys Arg Asn Arg Cys Cys

65

70

75

80

Asn Ser Thr Thr Cys Gln Leu Ala Glu Gly Ala Gln Cys Ala His Gly
 85 90 95

Thr Cys Cys Gln Glu Cys Lys Val Lys Pro Ala Gly Glu Leu Cys Arg
 100 105 110

Pro Lys Lys Asp Met Cys
 115

<210> 102

<211> 471

<212> PRT

<213> Homo sapiens

<400> 102

Gly Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp Asn Arg Asp Tyr Pro
 1 5 10 15

Pro Pro Pro Leu Lys Ser His Ala Gln Glu Arg His Ser Gly Asn Phe
 20 25 30

Pro Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln Gly His Ser Gly Pro
 35 40 45

Pro Phe Ala Asn Val Glu Glu His Ser Phe Ser Tyr Gly Ala Arg Asp
 50 55 60

Gly Pro His Gly Asp Tyr Arg Gly Gly Glu Gly Pro Gly His Asp Phe
 65 70 75 80

Arg Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln Ser Arg Asp Ser Ser
 85 90 95

Gln Leu Asp Phe Arg Gly Arg Asp Ile His Ser Gly Asp Phe Arg Asp
 100 105 110

Arg Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met
 115 120 125

Asp Tyr Arg Gly Arg Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp
 130 135 140

Ala His Ala Val Asp Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe
 145 150 155 160

Arg Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser
 165 170 175

His Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala
 180 185 190

Arg Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu
 195 200 205

Asp Phe Arg Asp Lys Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly

210	215	220													
Ser	Gly	Thr	Thr	Asp	Leu	Asp	Phe	Arg	Asp	Arg	Asp	Thr	Pro	His	Ser
225				230				235				240			
Asp	Phe	Arg	Gly	Arg	His	Arg	Ser	Arg	Thr	Asp	Gln	Asp	Phe	Arg	Gly
	245				250			255							
Arg	Glu	Met	Gly	Ser	Cys	Met	Glu	Phe	Lys	Asp	Arg	Glu	Met	Pro	Pro
	260				265			270							
Val	Asp	Pro	Asn	Ile	Leu	Asp	Tyr	Ile	Gln	Pro	Ser	Thr	Gln	Asp	Arg
	275				280			285							
Glu	His	Ser	Gly	Met	Asn	Val	Asn	Arg	Arg	Glu	Glu	Ser	Thr	His	Asp
	290				295			300							
His	Thr	Ile	Glu	Arg	Pro	Ala	Phe	Gly	Ile	Gln	Lys	Gly	Glu	Phe	Glu
	305				310			315					320		
His	Ser	Glu	Thr	Arg	Glu	Gly	Glu	Thr	Gln	Gly	Val	Ala	Phe	Glu	His
	325				330			335							
Glu	Ser	Pro	Ala	Asp	Phe	Gln	Asn	Ser	Gln	Ser	Pro	Val	Gln	Asp	Gln
	340				345			350							
Asp	Lys	Ser	Gln	Leu	Ser	Gly	Arg	Glu	Glu	Gln	Ser	Ser	Asp	Ala	Gly
	355				360			365							
Leu	Phe	Lys	Glu	Glu	Gly	Leu	Asp	Phe	Leu	Gly	Arg	Gln	Asp	Thr	
	370				375			380							
Asp	Tyr	Arg	Ser	Met	Glu	Tyr	Arg	Asp	Val	Asp	His	Arg	Leu	Pro	Gly
	385				390			395					400		
Ser	Gln	Met	Phe	Gly	Tyr	Gly	Gln	Ser	Lys	Ser	Phe	Pro	Glu	Gly	Lys
								405					410		415
Thr	Ala	Arg	Asp	Ala	Gln	Arg	Asp	Leu	Gln	Asp	Gln	Asp	Tyr	Arg	Thr
	420						425						430		
Gly	Pro	Ser	Glu	Glu	Lys	Pro	Ser	Arg	Leu	Ile	Arg	Leu	Ser	Gly	Val
	435						440						445		
Pro	Glu	Asp	Ala	Thr	Lys	Glu	Glu	Ile	Leu	Asn	Ala	Phe	Arg	Thr	Pro
	450				455			460							
Asp	Gly	Met	Pro	Val	Lys	Asn									
	465				470										

<210> 103

<211> 125

<212> PRT

<213> Homo sapiens

<400> 103

Gly Leu Gln Asp Ser Ala Arg Gly Ser Gln Glu Glu Arg Phe Ala

1	5	10	15
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Pro Gly Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu Lys Ser His Ala
 20 25 30

Gln Glu Arg His Ser Gly Asn Phe Pro Gly Arg Asp Ser Leu Pro Phe
 35 40 45

Asp Phe Gln Gly His Ser Gly Pro Pro Phe Ala Asn Val Glu Glu His
 50 55 60

Ser Phe Ser Tyr Gly Ala Arg Asp Gly Pro His Gly Asp Tyr Arg Gly
 65 70 75 80

Gly Glu Gly Pro Gly His Asp Phe Arg Gly Gly Asp Phe Ser Ser Ser
 85 90 95

Asp Phe Gln Ser Arg Asp Ser Ser Gln Leu Asp Phe Arg Gly Arg Asp
 100 105 110

Ile His Ser Gly Asp Phe Arg Asp Arg Glu Gly Pro Pro
 115 120 125

<210> 104
 <211> 330
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (260)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 104
 Met Leu Pro Asp Trp Lys Xaa Ser Leu Ile Leu Met Ala Tyr Ile Ile
 1 5 10 15

Ile Phe Leu Thr Gly Leu Pro Ala Asn Leu Leu Ala Leu Arg Ala Phe
 20 25 30

Val Gly Arg Ile Arg Gln Pro Gln Pro Ala Pro Val His Ile Leu Leu
 35 40 45

Leu Ser Leu Thr Leu Ala Asp Leu Leu Leu Leu Leu Pro Phe
 50 55 60

Lys Ile Ile Glu Ala Ala Ser Asn Phe Arg Trp Tyr Leu Pro Lys Val
 65 70 75 80

Val Cys Ala Leu Thr Ser Phe Gly Phe Tyr Ser Ser Ile Tyr Cys Ser
 85 90 95

Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly Val Ala
 100 105 110

Phe Pro Val Gln Tyr Lys Leu Ser Arg Arg Pro Leu Tyr Gly Val Ile
 115 120 125

Ala Ala Leu Val Ala Trp Val Met Ser Phe Gly His Cys Thr Ile Val
 130 135 140

Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val Arg Ser Gly Asn
 145 150 155 160

Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln Leu Asp Val Val
 165 170 175

Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe Phe Xaa Pro Met
 180 185 190

Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp Ile Met Leu Ser
 195 200 205

Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Ala Val Gly Leu Ala
 210 215 220

Val Val Thr Leu Leu Asn Phe Leu Val Cys Phe Gly Pro Tyr Asn Val
 225 230 235 240

Ser His Leu Val Gly Tyr His Gln Arg Lys Ser Pro Trp Trp Arg Ser
 245 250 255

Ile Ala Val Xaa Phe Ser Ser Leu Asn Ala Ser Leu Asp Pro Leu Leu
 260 265 270

Phe Tyr Phe Ser Ser Ser Val Val Arg Arg Ala Phe Gly Arg Gly Leu
 275 280 285

Gln Val Leu Arg Asn Gln Gly Ser Ser Leu Leu Gly Arg Arg Gly Lys
 290 295 300

Asp Thr Ala Glu Gly Thr Asn Glu Asp Arg Gly Val Gly Gln Gly Glu
 305 310 315 320

Gly Met Pro Ser Ser Asp Phe Thr Thr Glu

325

330

<210> 105
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 105
 Cys Ser Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly
 1 5 10 15

Val

<210> 106
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 106
 Cys Thr Ile Val Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val
 1 5 10 15

Arg Ser Gly Asn Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln
 20 25 30

Leu Asp Val Val Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe
 35 40 45

Phe Xaa Pro Met Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp
 50 55 60

Ile Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala
 65 70 75 80

Val Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys
 85 90

<210> 107
 <211> 143

<212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107

Gly Leu Pro Ala Ala Arg Val Arg Trp Glu Ser Ser Phe Ser Arg Thr
 1 5 10 15

Val Val Ala Pro Ser Ala Val Ala Xaa Lys Arg Pro Pro Glu Pro Thr
 20 25 30

Thr Pro Trp Gln Glu Asp Pro Glu Pro Asp Glu Asn Leu Tyr Glu
 35 40 45

Lys Asn Pro Asp Ser His Gly Tyr Asp Lys Asp Pro Val Leu Asp Val
 50 55 60

Trp Asn Met Arg Leu Val Phe Phe Gly Val Ser Ile Ile Leu Val
 65 70 75 80

Leu Gly Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly
 85 90 95

Cys Pro Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala
 100 105 110

Glu Arg Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu
 115 120 125

Ser Asn Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
 130 135 140

<210> 108

<211> 36

<212> PRT

<213> Homo sapiens

<400> 108

Pro Glu Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys
 1 5 10 15

Arg Ser Val Gln Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val
 20 25 30

Pro Ser Phe Gly
 35

<210> 109

<211> 15

<212> PRT

<213> Homo sapiens

<400> 109
Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg
1 5 10 15

<210> 110
<211> 10
<212> PRT
<213> Homo sapiens

<400> 110
Asp Met His Asp Phe Phe Val Gly Leu Met
1 5 10

<210> 111
<211> 16
<212> PRT
<213> Homo sapiens

<400> 111
Glu Trp Glu Ala Thr Glu Glu Met Glu Trp Ile Ile Arg Glu Ala Met
1 5 10 15

<210> 112
<211> 35
<212> PRT
<213> Homo sapiens

<400> 112
Trp Glu Trp Gly Thr Ile Thr Val Glu Asp Met Val Leu Leu Met Val
1 5 10 15

Trp Val Val Met Ala Val Val Glu Ala Val Glu Val Thr Met Gly
20 25 30

Lys Ala Ala
35

<210> 113
<211> 18
<212> PRT
<213> Homo sapiens

<400> 113
Gly Met Gly Gly Tyr Gly Arg Asp Gly Met Asp Asn Gln Gly Gly Tyr
1 5 10 15

Gly Ser

<210> 114

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 114
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Trp Arg Gly Met
 35 40

<210> 115
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 115
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Trp Arg Gly Met
 35 40

<210> 116
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 116
 Trp Asp Ser Thr Thr Ser Trp Thr Thr Ile Trp Leu Gln Gln Arg Gly
 1 5 10 15
 Asn Ser Ser Val Leu Ser Arg Val Gly Asn Arg Ala Asn Gly Ile Thr
 20 25 30
 Leu Thr Met Asp Tyr Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln
 35 40 45
 Phe Ala Ser Lys Glu Ile Ala Glu Asn Ala Leu Gly Lys His Lys Glu
 50 55 60
 Arg Ile Gly His Arg Tyr Ile Glu Ile Phe Arg Ser Ser Arg Ser Glu
 65 70 75 80
 Ile Lys Gly Phe Tyr Asp Pro Pro Arg Arg Leu Leu Gly Gln Arg Pro
 85 90 95
 Gly Pro Tyr Asp Arg Pro Ile Gly Arg Gly Gly Tyr Tyr Gly Ala
 100 105 110

Gly Arg Gly Ser Met Tyr Asp Arg Met Arg Arg Gly Gly Asp Gly Tyr
 115 120 125

Asp Gly Gly Tyr Gly Gly Phe Asp Asp Tyr Gly Gly Tyr Asn Asn Tyr
 130 135 140

Gly Tyr Gly Asn Asp Gly Phe Asp Asp Arg Met Arg Asp Gly Arg Gly
 145 150 155 160

Met Gly Gly His Gly Tyr Gly Gly Ala Gly Asp Ala Ser Ser Gly Phe
 165 170 175

His Gly Gly His Phe Val His Met Arg Gly Leu Pro Phe Arg Ala Thr
 180 185 190

Glu Asn Asp Ile Ala Asn Phe Phe Ser Pro Leu Asn Pro Ile Arg Val
 195 200 205

His Ile Asp Ile Gly Ala Asp Gly Arg Ala Gln Glu Lys Gln Met
 210 215 220

<210> 117

<211> 26

<212> PRT

<213> Homo sapiens

<400> 117

Phe Thr His Ser Phe Ile Leu Glu His Ala Phe Ser Leu Leu Ile Thr
 1 5 10 15

Leu Pro Val Ser Ser Trp Ala Ala Asn Asn
 20 25

<210> 118

<211> 384

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 118

Met Met Ile Gln Trp Asn Gly Pro Lys Thr Ser Ile Ser Glu Lys Ala
1 5 10 15

Arg Gly Leu Xaa Leu Thr Tyr Ser Leu Arg Asp Arg Glu Arg Gly Gly
20 25 30

Gly Arg Ala Gln Ile Gly Val Val Asp Asp Glu Ala Lys Ala Pro Asp
35 40 45

Leu Met Gln Ile Met Glu Ala Val Leu Gly Arg Arg Val Gly Xaa Leu
50 55 60

Arg Xaa Ala Thr Pro Ser Lys Asp Ile Asn Gln Leu Gln Lys Ala Asn
65 70 75 80

Val Arg Leu Tyr His Val Tyr Glu Lys Gly Lys Asp Leu Val Val Leu
85 90 95

Glu Leu Ala Thr Pro Pro Leu Thr Gln Asp Leu Leu Gln Glu Glu Asp
100 105 110

Phe Tyr Ile Leu Asp Gln Gly Gly Phe Lys Ile Tyr Val Trp Gln Gly
115 120 125

Arg Met Ser Ser Leu Gln Glu Arg Lys Ala Ala Phe Ser Arg Ala Val
130 135 140

Gly Phe Ile Gln Ala Lys Gly Tyr Pro Thr Tyr Thr Asn Val Glu Val
145 150 155 160

Val Asn Asp Gly Ala Glu Ser Ala Ala Phe Lys Gln Leu Phe Arg Thr
165 170 175

Trp Ser Glu Lys Arg Arg Asn Gln Lys Xaa Gly Gly Arg Asp Lys
180 185 190

Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr Gln Pro Lys
195 200 205

Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly Lys Val Glu
210 215 220

Val Trp Cys Ile Gln Asp Leu His Arg Gln Pro Val Asp Pro Lys Arg
225 230 235 240

His Gly Gln Leu Cys Ala Gly Asn Cys Tyr Leu Val Leu Tyr Thr Tyr
245 250 255

Gln Arg Leu Gly Arg Val Gln Tyr Ile Leu Tyr Leu Trp Gln Gly His
260 265 270

Gln Ala Thr Ala Asp Glu Ile Glu Ala Leu Asn Ser Asn Ala Glu Glu
275 280 285

Leu Asp Val Met Tyr Gly Gly Val Leu Val Gln Glu His Val Thr Met

290 295 300
Gly Ser Glu Pro Pro His Phe Leu Ala Ile Phe Gln Gly Gln Leu Val
305 310 315 320
Ile Phe Gln Glu Arg Ala Gly His His Gly Lys Gly Gln Ser Ala Ser
325 330 335
Thr Thr Arg Leu Phe Gln Val Gln Gly Thr Asp Ser His Asn Thr Arg
340 345 350
Thr Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile
355 360 365
Phe Leu Leu Val Thr Ala Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly
370 375 380